

WHAT IS CLAIMED IS:

1. A communication apparatus selectively connectable to a central communication apparatus, comprising:

a transmitter that transmits a request signal that request the central communication apparatus to transmit a plurality of first power measurement signals; and

a receiver that receives a plurality of first message signals and said plurality of first power measurement signals, transmitted by the central communication apparatus, said plurality of first message signals requesting the communication apparatus to transmit a plurality of second power measurement signals, said plurality of first power measurement signals being transmitted utilizing different carrier frequencies, said transmitter transmitting a plurality of second message signals and said plurality of second power measurement signals to the central communication apparatus after receiving said plurality of first message signals and said plurality of first power measurement signals, said plurality of second message signals confirming that said plurality of first power measurement signals have been received by the communication apparatus, said plurality of second power measurement signals being transmitted utilizing different carrier frequencies.

2. The communication apparatus of claim 1, wherein said receiver receives a third message signal representing a confirmation that said plurality of second power measurement signals were received by the central communication apparatus.

3. The communication apparatus of claim 1, wherein said plurality of second message signals are transmitted utilizing carrier frequencies that differ from carrier frequencies utilized by said plurality of first message signals.

4. The communication apparatus of claim 3, wherein said carrier frequencies utilized by said plurality of second message signals comprise 9 times a base family frequency, 17 times said base family frequency, and 25 times said base family frequency.

5. The communication apparatus of claim 4, wherein said base family frequency comprises one of 4.3125 kHz and 4.000 kHz.

6. The communication apparatus of claim 1, wherein said plurality of first power measurement signals and said plurality of second power measurement signals are transmitted utilizing a same plurality of carrier frequencies.

7. A central communication apparatus selectively connectable to a remote communication apparatus, comprising:

a receiver that receives a request signal from the remote communication apparatus requesting that the central communication apparatus transmit a first power measurement signal; and

a transmitter that transmits a plurality of first message signals and a plurality of first power measurement signals, the plurality of first message signals requesting the communication apparatus to transmit a second power measurement signal, said plurality of first power measurement signals being transmitted utilizing different carrier frequencies, said receiver receiving a plurality of second message signals and a plurality of second power measurement signals from the remote communication apparatus after transmitting said plurality of first message signals and said plurality of first power measurement signals, said plurality of second message signals confirming that said plurality of first power measurement signals were received by the communication apparatus, said plurality of second power measurement signals being transmitted utilizing different carrier frequencies.

8. The central communication apparatus of claim 7, wherein said transmitter transmits a third message signal representing a confirmation that said plurality of second power measurement signals were received by the central communication apparatus.

9. The central communication apparatus of claim 7, wherein said plurality of first message signals are transmitted utilizing different carrier frequencies.

10. The central communication apparatus of claim 9, wherein said different carrier frequencies utilized by said plurality of first message signals comprise 40 times a base family

frequency, 56 times said base family frequency, and 64 times said base family frequency.

11. The central communication apparatus of claim 10, wherein said base family frequency comprises one of 4.3125 kHz and 4.000 kHz.

12. The central communication apparatus of claim 7, wherein said plurality of first power measurement signals and said plurality of second power measurement signals are transmitted utilizing a same plurality of carrier frequencies.

13. A method for selectively connecting a communication apparatus to a central communication apparatus, comprising:

transmitting a request signal to the central communication apparatus that requests the central communication apparatus to transmit a plurality of first power measurement signals;

receiving a plurality of first message signals and the plurality of first power measurement signals in response to the transmitted request signal, transmitted by the central communication apparatus, the plurality of first message signals requesting the communication apparatus to transmit a plurality of second power measurement signals, the plurality of first power measurement signals being transmitted utilizing different carrier frequencies; and

transmitting a plurality of second message signals and the plurality of second power

measurement signals to the central communication apparatus after receiving the plurality of first message signals and the plurality of first power measurement signals, the plurality of second message signals confirming that the plurality of first power measurement signals have been received by the communication apparatus, the plurality of second power measurement signals being transmitted utilizing different carrier frequencies.

14. The method of claim 13, further comprising receiving a third message signal representing a confirmation that the plurality of second power measurement signals were received by the central communication apparatus.

15. The method of claim 13, further comprising transmitting the plurality of second message signals utilizing carrier frequencies that differ from carrier frequencies utilized to transmit the plurality of first message signals.

16. The method of claim 15, wherein the different carrier frequencies utilized by the plurality of second message signals comprise 9 times a base family frequency, 17 times the base family frequency, and 25 times the base family frequency.

17. The method of claim 16, wherein the base family frequency equals one of 4.3125 kHz and 4.000 kHz.

18. A method for selectively connecting a central communication apparatus to a remote communication apparatus, comprising:

receiving a request signal from the remote communication apparatus requesting that the central communication apparatus transmit a first power measurement signal;

transmitting a plurality of first message signals and a plurality of first power measurement signals, the plurality of first message signals requesting the communication apparatus to transmit a second power measurement signal, the plurality of first power measurement signals being transmitted utilizing different carrier frequencies; and

receiving a plurality of second message signals and a plurality of second power measurement signals from the remote communication apparatus after transmitting the plurality of first message signals and the plurality of first power measurement signals, the plurality of second message signals confirming that the plurality of first power measurement signals were received by the communication apparatus, the plurality of second power measurement signals being transmitted utilizing different carrier frequencies.

19. The method of claim 18, further comprising transmitting a third message signal representing a confirmation that the plurality of second power measurement signals were received by the central communication apparatus.

20. The method of claim 18, further comprising transmitting the plurality of first

message signals utilizing different carrier frequencies.

21. The method of claim 20, wherein the different carrier frequencies utilized by the plurality of first message signals comprise 40 times a base family frequency, 56 times the base family frequency, and 64 times the base family frequency.

22. The method of claim 21, wherein the base family frequency equals one of 4.3125 kHz and 4.000 kHz.

23. The method of claim 18, wherein the first plurality of power measurement signals and the plurality of second power measurement signals are transmitted utilizing a same plurality of carrier frequencies.